

¹²⁵Nd

Xu et al. first identified ¹²⁵Nd in 1999 and reported the results in “New β -delayed proton precursors in the rare-earth region near the proton drip line” (1999Xu05). A 169 MeV ³⁶Ar beam was accelerated with the sector-focused cyclotron at the National Laboratory of Heavy-Ion Accelerator in Lanzhou, China, and bombarded an enriched ⁹²Mo target. Proton- γ coincidences were measured in combination with a He-jet tape transport system. “The decay curve of the 142-keV γ line coincident with 2.5–5.5 MeV protons is shown in the inset [of the figure], from which the half-life of the new nuclide ¹²⁵Nd was extracted to be 0.60 ± 0.15 s.”

Adapted from reference (2012Gr02)

1999Xu05 S. W. Xu, Z. K. Li, Y. X. Xie, Q. Y. Pan *et al.*, Phys. Rev. C **60**, 061302 (1999).

2012Gr02 J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 75 (2012).

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